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(54) CASTING EPOXY RESIN COMPOSITION

(57)Abstract:

PURPOSE: To improve the appearance, internal settling, bending strength, impact strength, electrical properties and quality of the obtained casting by mixing an epoxy resin as a base with a specified alumina powder as a filler.

CONSTITUTION: An epoxy resin of an epoxy equivalent of 170-450 as a base is mixed with 60-75wt.% alumina powder substantially consisting of particles of a particle diameter $\leq 2 \mu\text{m}$ and having such a particle diameter distribution that the mean particle diameter is $5-10 \mu\text{m}$ and the content of particles of a particle diameter $\leq 1 \mu\text{m}$ $\geq 8\text{wt.}\%$ as a filler and a curing agent, and the mixture is agitated at $60-130^\circ\text{C}$ in a vacuum while degassing it.